

# **CORROSION CONTROL**

## **Anniston Army Depot**

**February 9, 2010**

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# ON-GOING ACTIONS

## Coatings

- Oil/lube select parts.
- Anodize, Chrome, and Black Oxide (et.al.)
- Substrate Prep and CARC paint.

## Stowage

- Climate controlled storage (limited).
- Weather resistant (rain, uv) stowage.
- Right Material – Right Time



# In Process Actions

Bldgs 129  
and 114

- Installation of new cleaning technologies for small arms overhaul and plating operations that incorporate rust inhibition into final stage.

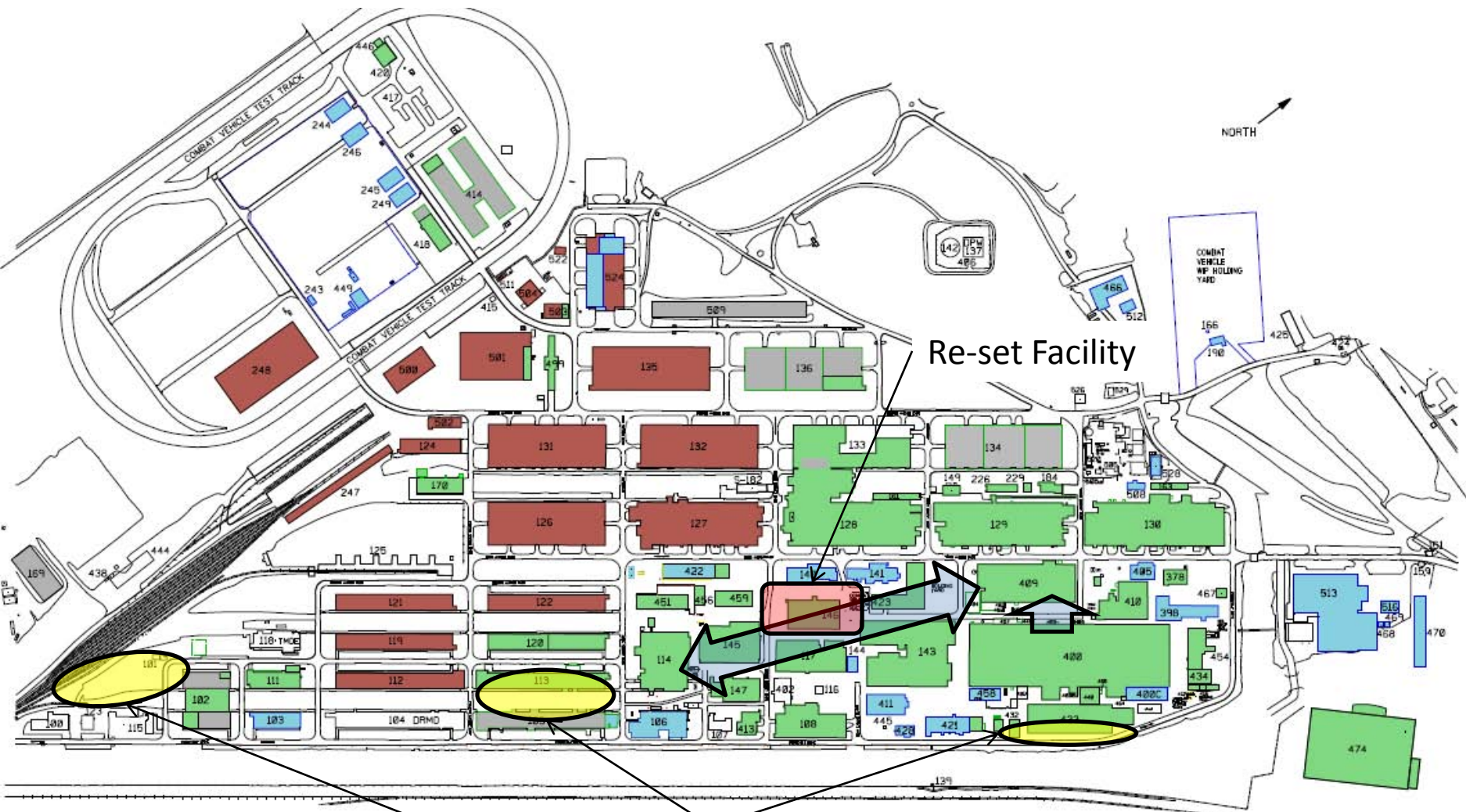
Bldg 409

- 'Single Piece' flow through Bldg 409.

Paint  
Application

- Advent of Automated Proportioners (eliminate hand mixing of two component coatings).





Re-set Facility

Outside Storage





**B409 Renovation**

**Traffic Flow**

**Traffic Flow**

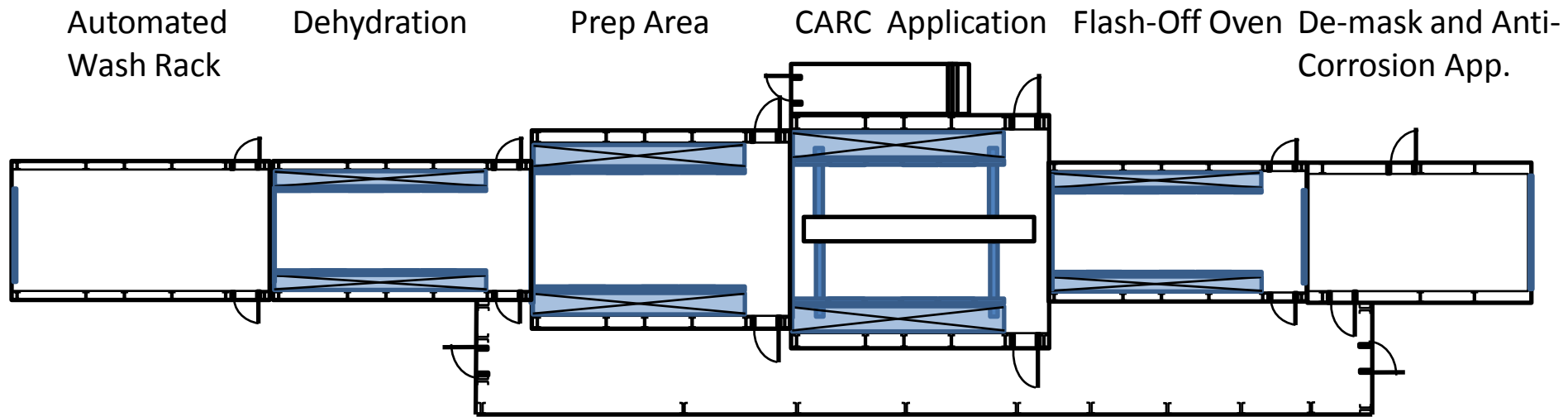
**Traffic Flow**

**Traffic Flow**

Components pass through 'dirty' processes multiple times prior to paint

[illegible]

# Wheeled Vehicle Re-set Facility



# Planned Future Actions

## Survey

- Perform a corrosion survey to assess impact of corrosion on depot activities and identify opportunities to reduce corrosion.
- Analyze data and prioritize those actions that will yield the greatest impact for corrosion prevention.

## Routing

- Evaluate parts staging procedures to determine if parts routing optimization can minimize corrosion.

## Stowage

- Evaluate need for improved infrastructure for parts stowage and staging.





# Planned Future Actions Continued

## Inhibitor

- Evaluate the benefits of applying corrosion inhibitor to the finished product prior to delivery to customer.
- Implement advanced cleaning system incorporating corrosion inhibitors to replace Building 409 solvent cleaning.

## Process Water

- Evaluate quality of supply water for aqueous based processes and determine if water polishing can reduce corrosion.

## Work Practices

- Establish Corrosion Prevention mind-set and work practices internally as a function of Lean Manufacturing and Environmental initiatives.



# Challenges

## Resources

- Limited funding.
- Limited manpower.

## Technical Assistance

- For cleaning systems design, wash rack optimization and water polishing requirements.
- For data collection, data review, interpretation and reporting.

## Infrastructure

- Limited space.
- Proper environmental controls for corrosion prevention.



# Challenges Continued

## Communication

- Receiving information from the customer on corrosion issues in the field.
- Internal communication on what changes and initiatives are being made at ANAD.

